

Author Index for Volume 28

- Ahmed, H. A., 347
Allen, G. C., 33
Atkinson, H. V., 353

Balooch, M., 195
Beauprie, R. M., 259
Bottino, C., 309
Bowsher, B. R., 33
Brett, M. E., 347

Calvert, J. M., 109
Cawley, J. D., 1
Chaze, A. M., 61
Clark, Ronald K., 391
Coddet, C., 61
Cooper, A. R., 1
Cory, Nicholas J., 237

De Asmundis, C., 309
Douglass, D. L., 309

Fotios, G. M., 33

Gabriel, G. J., 329
Gilewicz-Wolter, Jolanta, 277
Graham, M. J., 347

Halloran, J. W., 1
Herrington, Thelma M., 237
Hsu, H. S., 213

Imai, Kiyoshi, 17
Ishakawa, Tatsuo, 17

Kowalska, Krystyna, 277

LaBranche, M. H., 73
Lees, D. G., 109

McAdam, G., 165
Mehta, M. L., 127

Nanni, P., 309
Narita, Toshio, 17
Nichols, A. L., 33
Nishida, Keizo, 17

Oleander, D. R., 195

Prakash, S., 127

Rawers, J. C., 183

Saraswat, I. P., 127
Saxena, Deepak, 127
Shibata, Toshio, 155
Siekhaus, W. J., 195
Skeldon, M., 109
Smeltzer, W. W., 259, 291, 347
Smith, P. J., 259, 291
Stevanovic, D. V., 259
Stott, F. H., 329

Taniguchi, Shigeji, 155
Thompson, D. A., 259

Underhill, R. P., 347

Unnam, J., 391

Vedula, K., 99

Wiedemann, K. E., 391

Wild, R. K., 33

Wood, G. C., 329

Young, D. J., 165

Yurek, G. J., 73

Subject Index for Volume 28

- Adherence of oxide films on titanium alloys, 61
- Aluminum, effect of ion implantation on the oxidation of Fe-6 at.% Al, 259
- Auger spectroscopy, use of to analyze scales, Fe-Al alloys, 347
- Breakdown of protective oxide scales, coal-derived atmospheres, 213
- Coal-derived atmospheres, effect of on breakdown of scales, 213
- Coatings, effect of on titanium-alloy oxidation, 391
- Copper, reaction in $\text{SO}_2 + \text{O}_2$, 277
- Cesium hydroxide, reaction of with 304 stainless, 33
- Chromium, reaction in $\text{H}_2\text{-H}_2\text{O-H}_2\text{S}$, 73
- Cr_2O_3 , mechanism of growth during oxidation of chromium, 109
- Cr_{23}C_6 , sulfidation behavior, 17
- Demixing of oxide solid solutions, 99
- Fe-SOAl, long-term sulfidation, 291
- Fe-Al alloys, analysis of scales by Auger and Mossbauer spectroscopy, 347
- Fe-6 at.% Al, effect of Al-ion implantation on oxidation, 259
- Fe-15Cr-4Al, effect of Y on sulfidation, 127
- Fe-5Cr-15Ni-2Si-4.5Mo, oxidation behavior, 183
- Fe-Mn, morphology of oxide-sulfide scales, 165
- Fe, morphology of oxide-sulfide scales, 165
- Ferrous alloys, kinetics of oxidation in superheated steam, 237
- Grain structure of NiO scales on Ni, 353
- Ion implantation, Al in Fe-6 at.% Al, oxidation kinetics, 259
- Internal oxidation, Ni-Si alloys, 309
- Kinetics, ferrous alloys in superheated steam, 237
- Liquid uranium, reaction with water and steam, 195
- Morphology of oxide-sulfide scales, Fe and Fe-Mn alloys, 165
- Mossbauer spectroscopy, use of to analyze oxide scales, 347
- $\text{Ni}_3\text{Al-0.1B-2Cr}$, oxidation behavior, 155
- Nickel, grain structure in NiO scales, 353
- Ni-Si alloys, internal oxidation/external oxidation transition, 309
- Ni-Si alloys, oxidation behavior, 329
- O^{18} tracer study, oxidation of silicon, 1
- Oxide solid solution demixing, 99

Protective oxide scales, breakdown in coal-derived atmospheres, 213

Silicon, effect of on oxidation of nickel, 309, 329

Silicon oxidation, O^{18} tracer study, 1

SO_2 , reaction with copper, 277

Stainless steel, 304, reaction with cesium hydroxide, 33

Sulfidation, effect of Y in Fe-15Cr-4Al, 127

Sulfidation, long-term tests, 291

Sulfidation, of $Cr_{23}C_6$, 17

Superheated steam, kinetics of oxidation, ferrous alloys, 237

Surface studies, cesium hydroxide vapor with 304 stainless, 33

Yttrium, effect of on sulfidation of Fe-15Cr-4Al, 127

Instructions to Contributors

1. Manuscripts should be sent to:
Prof. D. L. Douglass
Materials Department
Room 6531, Boelter Hall
University of California at Los Angeles
Los Angeles, California 90024
2. Submission is a representation that the manuscript has not been published previously and is not currently under consideration for publication elsewhere. A statement transferring copyright from the authors (or their employers, if they hold the copyright) to Plenum Publishing Corporation will be required before the manuscript can be accepted for publication. The Editor will supply the necessary forms for this transfer. Such a written transfer of copyright, which previously was assumed to be implicit in the act of submitting a manuscript, is necessary under the new U.S. Copyright Law in order for the publisher to carry through the dissemination of research results and reviews as widely and effectively as possible.
3. Type double-spaced, and submit the original and two copies (including, where possible, copies of all illustrations and tables).
4. An abstract of 150 words or less is to be provided.
5. A list of 4–5 key words is to be provided directly below the abstract. Key words should express the precise content of the manuscript, as they are used for indexing purposes, both internal and external.
6. Illustrations (photographs, drawings, diagrams, and charts) are to be numbered in one consecutive series of Arabic numerals. The captions for illustrations should be typed on a separate sheet of paper. Photographs should be large, glossy prints, showing high contrast. Drawings should be prepared with india ink. Either the original drawings or good-quality photographic prints are acceptable. Identify figures on the back with author's name and number of the illustration.
7. Tables should be numbered and referred to by number in the text. Each table should be typed on a separate sheet of paper.
8. References should be made by using superscript Arabic numerals, and the full references should be given in a list at the end of the paper. For maximum clarity, abbreviations should be avoided in the references. Whenever a book is cited, the number of the relevant chapter should be given.
9. In general, *Oxidation of Metals* follows the recommendations of the American Institute of Physics in their *Style Manual*, and it is suggested that contributors refer to this publication.
10. The journal makes no page charges. Reprints are available to authors, and order forms are sent with proofs.

OXIDATION OF METALS

Vol. 28, Nos. 5/6

December 1987

CONTENTS

Kinetics of Oxidation of Ferrous Alloys by Super-Heated Steam <i>Nicholas J. Cory and Thelma M. Herrington</i>	237
The Effect of Aluminium Ion Implantation on the Oxidation of an Fe-6at.% Al Alloy at 1173 K <i>P. J. Smith, R. M. Beuprie, W. W. Smeltzer, D. V. Stevanovic, and D. A. Thompson</i>	259
Transport of Reactants during Scale Formation on Copper in $\text{SO}_2 + \text{O}_2$ Atmosphere at 973 and 1073 K <i>Jolanta Gilewicz-Wolter and Krystyna Kowalska</i>	277
A Method for Long-Term Sulfidation of Metal at Low Sulfur Pressures and Its Application to Sulfidation of an Fe-20at.% Al Alloy at 1023 K <i>P. J. Smith and W. W. Smeltzer</i>	291
The Transition from Internal Oxidation to Continuous-Film Formation during Oxidation of Dilute Ni-Si Alloys <i>D. L. Douglass, P. Nanni, C. De Asmundis, and C. Bottino</i>	309
The Influence of Silicon on the High-Temperature Oxidation of Nickel <i>F. H. Stott, G. J. Gabriel, and G. C. Wood</i>	329
The Use of Mössbauer and Auger Spectroscopy for Analysis of Oxide Layers on Fe-Al Alloys <i>H. A. Ahmed, R. P. Underhill, W. W. Smeltzer, M. E. Brett, and M. J. Graham</i>	347
Evolution of Grain Structure in Nickel Scales <i>H. V. Atkinson</i>	353
Effect of Coatings on Oxidation of Ti-6Al-2Sn-4Zr-2Mo Foil <i>Ronald K. Clark, J. Unnam, and K. E. Wiedemann</i>	391
Author Index for Volume 28	407
Subject Index for Volume 28	409
